# Dr. Op. Amp

Moonn Electronics

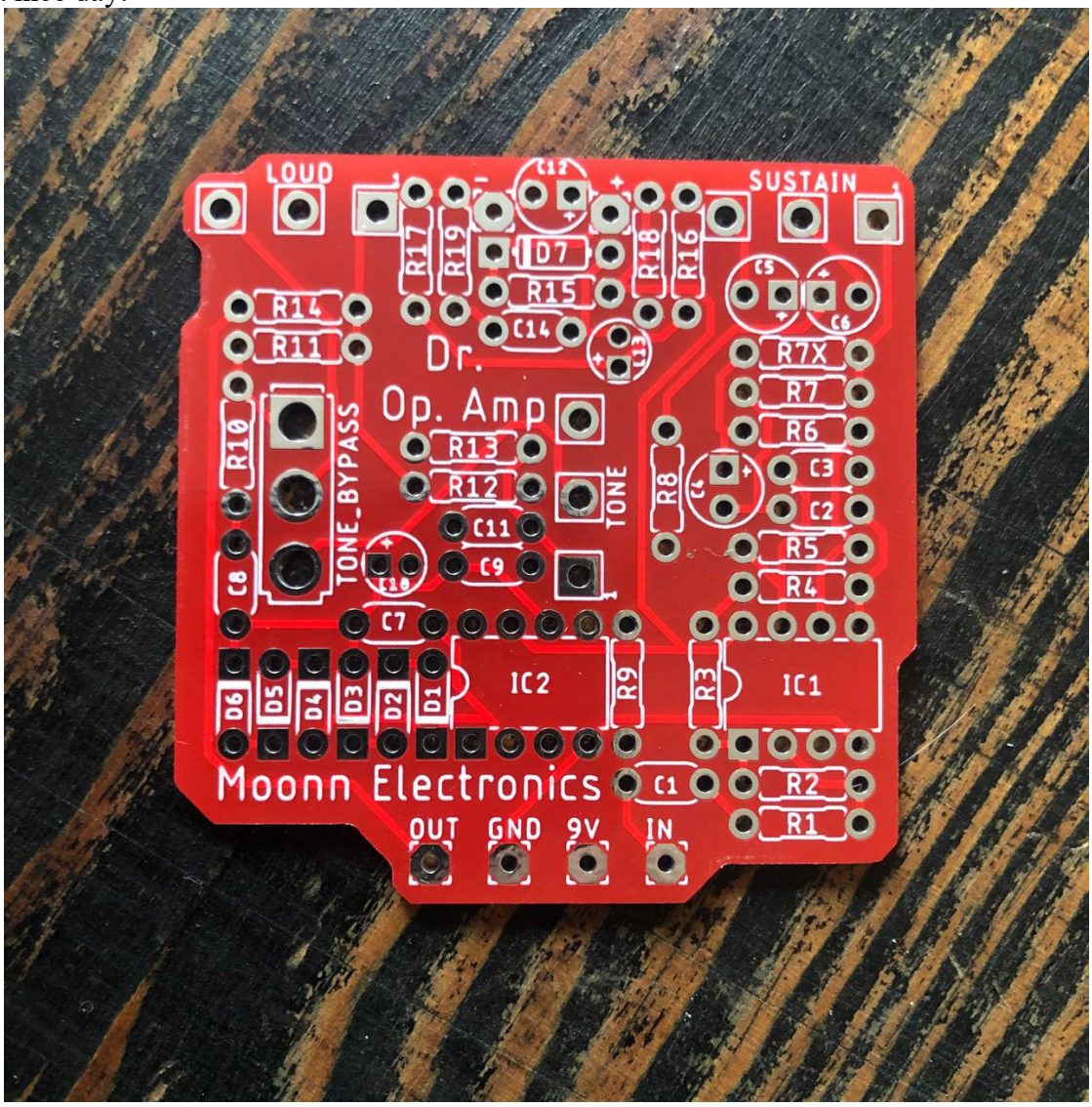
Use me to build a clone of Opamp Big Muff by Electro Harmonix

Hi there!
Thank you for building me!

You will find that if you build me up properly there is still an Empty Space that calls for RX7.
Ignore that!
Don't solder anything in there!
Don't even think about soldering anything in there!
Don't even think about it at all!
Thanks <3

If you have any questions or anything else to say, just write an email to
moonnelectronics@gmail.com

Have a nice day!

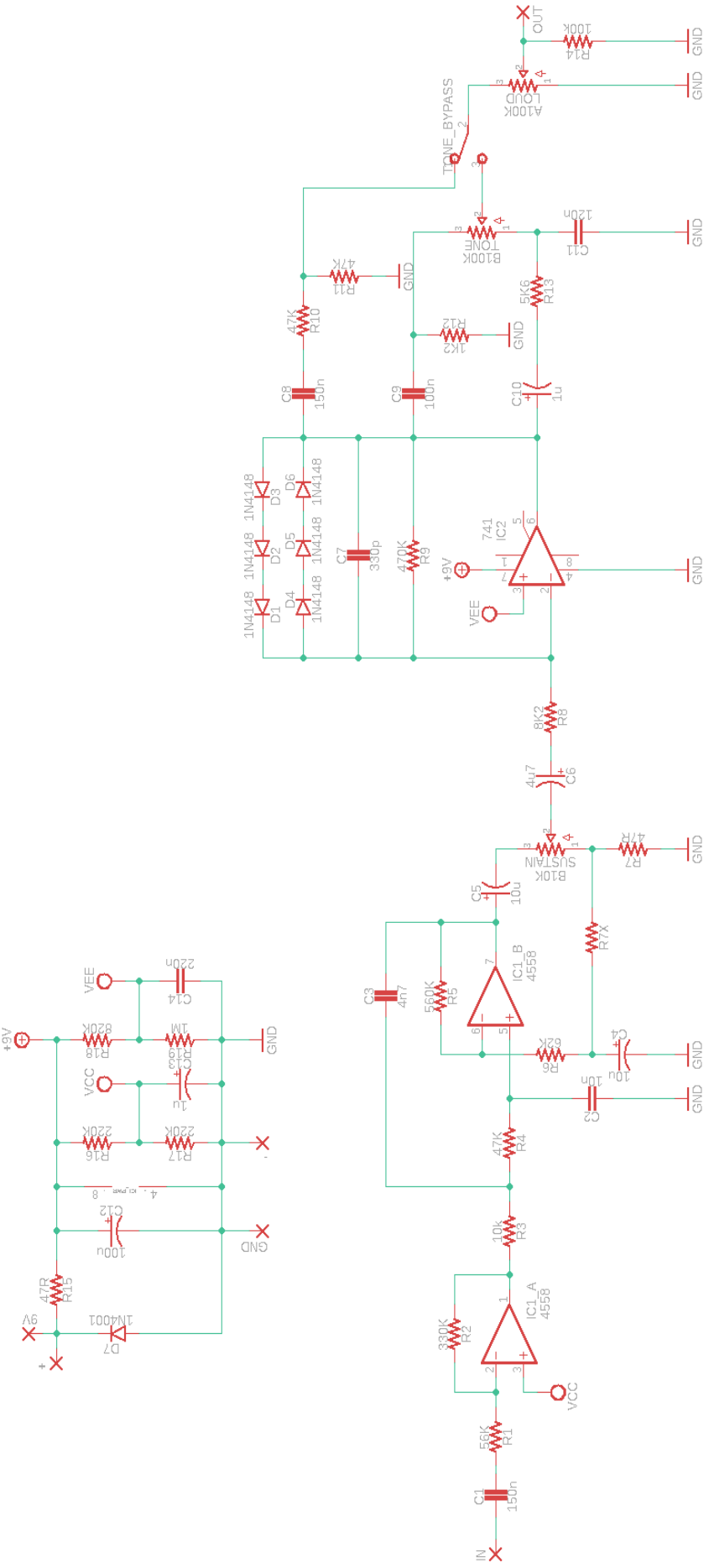



Moonn Electronics is in no way affiliated with Electro Harmonix

# Bill of Materials

| Qty | Value | Parts |
|---|---|---|
| Resistors | | |
| 2 | 47R | R7, R15 |
| 1 | 1K2 | R12 |
| 1 | 5K6 | R13 |
| 1 | 8K2 | R8 |
| 1 | 10k | R3 |
| 3 | 47K | R4, R10, R11 |
| 1 | 56K | R1 |
| 1 | 62K | R6 |
| 1 | 100K | R14 |
| 2 | 220K | R16, R17 |
| 1 | 330K | R2 |
| 1 | 470K | R9 |
| 1 | 560K | R5 |
| 1 | 820K | R18 |
| 1 | 1M | R19 |
| Film and Ceramic Capacitors | | |
| 1 | 330p | C7 |
| 1 | 4n7 | C3 |
| 1 | 10n | C2 |
| 1 | 100n | C9 |
| 1 | 120n | C11 |
| 2 | 150n | C1, C8 |
| 1 | 220n | C14 |
| Electrolytic Capacitors | | |
| 2 | 1u | C10, C13 |
| 1 | 4u7 | C6 |
| 2 | 10u | C4, C5 |
| 1 | 100u | C12 |
| Semiconductors | | |
| 6 | 1N4148 | D1, D2, D3, D4, D5, D6 |
| 1 | 1N4001 | D7 |
| 1 | 4558 | IC1 |
| 1 | 741 | IC2 |
| Switches and Potentiometers | | |
| 1 | SPDT | OnOn  TONE_BYPASS |
| 1 | B10K | SUSTAIN |
| 1 | A100K | LOUD |
| 1 | B100K | TONE |

# Schematic


OUT
100K
R14
GND
A100K
LOUD
TONE_BYPASS
B100K
TONE
120n
C11
4K7
R11
47K
R10
5K6
R13
1K2
R12
C8
150n
C9
100n
C10
1u
1N4148
D3
D6
D2
D5
D1
D4
C7
330p
470K
R9
741
IC2
+9V
VEE
8K2
R8
4u7
C6
B10K
SUSTAIN
47K
R7
C5
10u
R7X
IC1_B
4558
C3
4n7
560K
R5
82K
R6
C4
10u
C2
10u
47K
R4
10k
R3
IC1_A
4558
330K
R2
VCC
56K
R1
C1
150n
IN
C14
220n
820K
R18
1M
R19
VCC
1u
R16
220K
R17
220K
C12
100u
GND
47R
R15
9V
1N4001
D7

# Offboard Wiring